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(71) Applicant (for all designated States except US): THE REGENTS OF THE UNIVERSITY OF CALIFORNIA [US/US]; 1111 Franklin Street, 12th Floor, Oakland, CA 94607-5200 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): YANG, Yang [US/US]; 13730 Bayliss Road, Los Angeles, CA 90095 (US). MA, Liping [CN/US]; 3290 Sawtelle Boulevard #203, Los Angeles, CA 90066 (US). HE, Jun [CN/CN]; Fudan University, Shanghai (CN).

(74) Agents: DALEY, Henry, J. et al.; Venable LLP, P.O. Box 34385, Washington, DC 20043-9998 (US).

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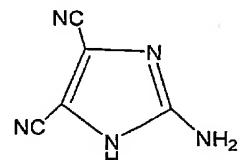
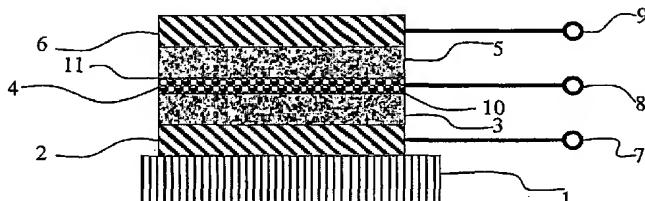
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## (54) Title: THREE-TERMINAL ELECTRICAL BISTABLE DEVICES



(57) Abstract: A three terminal electrical bistable device that includes a tri-layer composed of an electrically conductive mixed layer sandwiched between two layers of low conductivity organic material that is interposed between a top electrode and a bottom electrode. The conducting mixed layer serves as the middle electrode. The device includes two memory cells composed of electrode/organic layer/mixed layer, where the interfaces between the electrically conductive mixed layer and the low conductivity organic layer exhibit bistable behavior.